

Linearly presented perfect ideal of codimension 2

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Let I be a height two perfect ideal with a linear presentation matrix in a polynomial ring $R = k[x_1, \dots, x_d]$. In this talk we discuss the Rees algebra and special fiber of I . These algebras are well understood when the ideal I satisfies the Artin–Nagata condition G_d . Our interest is to investigate what occurs with these algebras when we replace the condition G_d by the weaker condition G_{d-1} .